

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/000720

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 F25B 29/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 : F25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS, "heat exchanger" "compressor" "high pressure" "condensing pressure" "control valve" etc.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-179960 A (SANDEN LTD.) 30. JUN. 2000 Fig. 1-2, Claim 1, page 3, right column, lines 10-33	1
Y	JP 6-331223 A (MITSUBISHI ELECTRIC CORP.) 29. NOV. 1994	1
A	Fig. 8, Claim 5-6	2, 12
A	Fig. 8, Claim 5-6	
A	JP 6-137693 A (HITACHI LTD.) 20. MAY. 1994	1
A	Fig. 1, Claim 1	
A	US 6405554 B1 (DAIKIN INDUSTRIES LTD.) 18. JUN. 2002	2, 12
A	Fig. 13	
A	JP2003-75026 A (DAIKIN INDUSTRIES LTD.) 12.MAR. 2003	2, 12
	Fig. 3	

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

24 JUNE 2004 (24.06.2004)

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR2004/000720

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP2000-179960 A	30.06.2000	EP1014013 A1	28.06.2000
JP6-331223 A	29.11.1994	NONE	
JP6-137693 A	20.05.1994	NONE	
US6405554 B1	18.06.2002	AU740700 B2 AU5997799 A CN1320203 T EP1134515 A1 EP1134515 A4 JP3094997 B2 JP2000105012 A W00019155 A1	15.11.2001 17.04.2000 31.10.2001 19.09.2001 16.10.2002 03.10.2000 11.04.2000 06.04.2000
JP2003-75026 A	12.03.2003	NONE	